

IN THE CLAIMS:

Please cancel claims 1-17 without prejudice; and add new claims 18-37 as follows:

Claims 1-17 (canceled).

Please add new claims 18-37 as follows:

18. (New) An optical disk recording device, comprising:

disk-applicable-recording-speed information reproducing means for reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to a predetermined speed value within a range specified by the disk-applicable-recording-speed information reproduced by said disk-applicable-recording-speed information reproducing means.

19. (New) An optical disk recording device as recited in claim 18, wherein said disk-applicable-recording-speed information reproducing means reproduces the disk-applicable-recording-speed-information pre-recorded in pre-groove wobbles or pre-pits of the optical disk.

20. (New) An optical disk recording device for recording on an optical disk where disk-applicable-recording-speed information is incorporated in at least one of

lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

21. (New) An optical disk recording device as recited in claim 20, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk and wherein said control means sets the recording speed for the optical disk to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

22. (New) An optical disk recording device for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk; and

control means for determining one of the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information reproduced by said time information reproducing means and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

23. (New) An optical disk recording device for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in at least one of lead-in start time information and lead-out

start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information or the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

24. (New) An optical disk recording device as recited in claim 18, wherein said control means sets the recording speed to a highest speed value settable within a range of the disk-applicable recording speeds.

25. (New) An optical disk recording device, comprising:

disk-applicable-recording-speed information reproducing means for reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk;

display means for displaying disk-applicable recording speeds based on the disk-applicable-recording-speed information reproduced by said disk-applicable-recording-speed information reproducing means;

recording speed designating means for designating a particular recording speed value based on an operation by a user; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated by said recording speed designating means:

26. (New) An optical disk recording device as recited in claim 25, wherein the disk-applicable-recording-speed information reproducing means reproduces the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk.

27. (New) An optical disk recording device for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

disk-applicable-recording-speed information storage means for storing therein correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove

wobbles or pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

display means for displaying the disk-applicable-recording-speed information that is read out from said disk-applicable-recording-speed information storage means based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means;

recording speed designating means for designating a particular recording speed value based on an operation by a user; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated by said recording speed designating means.

28. (New) An optical disk recording method, comprising:

reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk; and

performing recording on the optical disk after setting a recording speed for the optical disk to a predetermined speed value within a range specified by the disk-applicable-recording-speed information.

29. (New) An optical disk recording method as recited in claim 28, wherein in said reproducing the disk-applicable-recording-speed information, the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

30. (New) An optical disk recording method for recording on an optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, either one or both of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk;

determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

31. (New) An optical disk recording method as recited in claim 30, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, and wherein the recording speed for the optical disk is set to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

32. (New) An optical disk recording method for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

determining one of the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information; and



performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

33. (New) An optical disk recording method for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in either one or both of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk;

determining the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information or the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

34. (New) An optical disk recording method as recited in claim 28, wherein the recording speed is set to a highest speed value settable within a range of the disk-applicable recording speeds.

35. (New) An optical disk recording method, comprising:

- reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk;
- displaying disk-applicable recording speeds based on the disk-applicable-recording-speed information;
- designating a particular recording speed value based on an operation by a user; and
- performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.

36. (New) An optical disk recording method as recited in claim 35, wherein the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

37. (New) An optical disk recording method for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

- storing correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-

groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk;

displaying the read out disk-applicable-recording-speed information based on at least one of the lead-in start time information and the lead-out start time information;

designating a particular recording speed value based on an operation by a user; and

performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.